

***Industrial automation systems and integration -  
Product data representation and exchange -  
Part 43:  
Integrated generic resources:  
Representation structures***

TECHNICAL CORRIGENDUM 2

Technical Corrigendum 2 to International Standard ISO 10303-43:1994 was prepared by Technical Committee ISO/TC 184, *Industrial automation systems and integration*, Subcommittee SC 4, *Industrial data*.

*Included SEDS reports: ISO/DIS 10303-43 (second edition) comments*

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## Introduction

*This document corrects ISO 10303-43:1994, Product data representation and exchange - Integrated generic resources: Representation structures. The corrected document supersedes ISO 10303-43:1994.*

*The modifications to the text of ISO 10303-43:1994 provided here apply to the document as corrected by Technical Corrigendum 1. The purpose of these modifications is to correct the definition of an entity data type added in ISO 10303-43:1994/Cor.1:1999, add a new informative Annex, and replace the object identifier for the document.*

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## Modifications to the text of ISO 10303-43:1994

### Foreword

*Modifications to the definition of the **founded\_item** entity data type (see below) require the addition of a Bibliography as an additional informative annex. Replace the final sentence of the Foreword by the following:*

Annexes C, D, and E are for information only.

### Clause 4.14

*Parts of the definition of the **founded\_item** entity data type as added by ISO 10303-43:1994/Cor.1:1999 have been found to be incorrect. Delete the definition of the entity data type and the accompanying NOTE in clause 4.14 and replace by the following:*

The **founded\_item** entity data type represents part of an element of representation. A **founded\_item** can be used only as part of the definition of a **representation\_item**, and is founded through the participation of the **representation\_item** in a representation. Further, any instances of **representation\_item** that are part of a **founded\_item** are founded through that participation. A **founded\_item** cannot be an item in a **representation**.

NOTE 1 This entity data type allows errors in other parts of ISO 10303 to be corrected in an upwardly compatible manner. Specifically, it is a supertype of the entity data types **composite\_curve\_segment** and **surface\_patch** (defined in ISO 10303-42:1994, as corrected by ISO 10303-42:1994/Cor.2:1999), and **view\_volume** (defined in ISO 10303-46:1994, as corrected by ISO 10303-46:1994/Cor.1:1999).

NOTE 2 This entity data type is not intended to be instantiated as a complex instance of two or more of its defined subtypes **composite\_curve\_segment**, **surface\_patch**, and **view\_volume**.

NOTE 3 This entity data type is not intended for any other use apart from the correction of the errors in other parts of ISO 10303 listed in NOTE 1 above.

EXAMPLE A **bounded\_curve** that is the parent curve of a **composite\_curve\_segment** is founded as a result of the **composite\_curve\_segment** being a **founded\_item** that is part of a **representation\_item** (a **composite\_curve**). This provides the necessary relationship between the **bounded\_curve** and a **geometric\_representation\_context**.

NOTE 4 The **bounded\_curve**, **composite\_curve**, and **geometric\_representation\_context** entity types are defined in ISO 10303-42.

*Delete the informal proposition IP1 and replace by the following:*

**IP1:** Each **founded\_item** shall participate in the definition of a **representation\_item**.

### Annex B.1, p. 24

*With the changes identified in this Technical Corrigendum, the object identifier for this part of ISO 10303 has changed. Remove the object identifier for the document and replace with the following:*

{ iso standard 10303 part(43) version (3) }

**Annex E**

*Add a new informative Annex between the end of Annex D and the Index (see next page).*

## **Annex E**

(informative)

### **Bibliography**

1. ISO 10303-42:1994, *Industrial automation systems and integration – Product data representation and exchange – Part 42: Integrated generic resources: Geometric and topological representation* (as corrected by ISO 10303-42:1994/Cor.1:1998 and ISO 10303-42:1994/Cor.2:1999).
2. ISO 10303-46:1994, *Industrial automation systems and integration – Product data representation and exchange – Part 46: Integrated generic resources: Visual presentation* (as corrected by ISO 10303-46:1994/Cor.1:1999).